## **PROPAGATION**

## Viola Celestial™

#### Viola cornuta

## TRAY & ROOTING

Form Unrooted Cuttings

(URC)

Rooting Hormone **Yes** 

Tray Size(s) **72, 105** 

Plants Per Cell 1

Wks. From Stick To

Transplant

**5-6** 

Pinch? Yes

Days from stick to pinch 14-21

#### **FERTILITY**

Fertilize Through Mist? **No** 

100-150 ppm N (20-6-22

Fertilizer Rate **or 22-5-16 [15-0-15** 

under low-light conditions])

EC Range Moderate: (2.0-3.5 mS

via SME)

pH Range **5.4-5.8** 

### TEMPERATURE

Average Soil Temperature 65-72°F (18-22°C)

Average Air Temperature 58-65°F (14-18°C)

#### **IRRIGATION**

Level 3: Keep media
moderately moist with

Irrigation Frequency moderately moist with mild dry cycles

LIGHT

Supplemental No

Benefits From Shade? **No** 

#### POTENTIAL DISEASES

Botrytis, Alternaria, Pythium

#### POTENTIAL PESTS

aphids, whitefly, fungus gnats

#### PGR SUGGESTIONS

• Optional 300-500 ppm Florel (3.9% Ethephon)



#### **CULTIVAR LIST**

Blue Moon, Northern Lights, Starry Night



'Northern Lights'

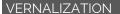
#### **TIPS**

- Plants are sensitive for high pH and high salt levels. Monitor pH and EC regularly to avoid any issues.
- Overmisting can lead to pronounced nutrient deficiencies; monitor mist carefully to avoid consistently saturated media. Tenting has proven to be an effective strategy for some growers.

## **FINISHING**

# Viola Celestial<sup>TM</sup>

#### Viola cornuta



Vernalization Required? Cooling

Vernalization Duration

Minimum

6-8 weeks

Vernalization Temperature **35-40°F (1.6-4.4°C)** 

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CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
CONTAINED CIZE	DLANTC	TDANICDI ANIT TO

4 in./qt (10-12 cm) 1 8-10 6 in./Gal. (15-16 cm) 2-3 9-12

**FERTILITY** 

200-250 ppm N (20-6-22 or 22-5-16

Fertilizer Rate [15-0-15 under low-light

conditions])

EC Range Moderate: (2.0-3.5 mS via SME)

pH Range **5.8-6.3** 

**TEMPERATURE** 

Day Temperature **45-55°F (7-13°C)**Night Temperature **35-45°F (2-7°C)** 

IRRIGATION

Irrigation Frequency

Level 3: Keep media moderately moist with mild dry cycles

LIGHT

Photoperiodic requirements Daylength Neutral

Supplemental? None

Benefits From Shade? **No** 

PINCHING

Finishing Pinch? **No** 

Transplant to pinch (days) N/A

POTENTIAL DISEASES

Botrytis, Alternaria, Pythium

POTENTIAL PESTS

aphids, whitefly, fungus gnats

#### PGR SUGGESTIONS

- Bonzi (0.4% Paclobutrazol) 5-40ppm spray
- 5-8 ppm Sumagic (0.055% Uniconazole)





'Blue Moon'

#### **TIPS**

- Finish crop as cool as possible with low day and night temperatures and high light.
- Cooling for 4-5 weeks is required for superior flowering at 40°F (4.4°C)

## FEATURES AND BENEFITS

## Viola Celestial<sup>TM</sup>

#### Viola cornuta

#### **KEY INFORMATION**

First Year Flowering? Yes

Bloom Time

**Spring** 

Exposure Full Sun to Shade

Hardiness Zone 4-6

Height **4-8 inches (10-20 cm)** 

Width **8-14 inches (20-36 cm)** 

#### **DESCRIPTION**

Great early perennial with semi-evergreen foliage and pansy -like flowers that offer more than an annual Viola. Will reseed regularly and establish sporadic colonies wherever growing conditions are favorable.

#### CONSUMER APPEAL

- A great cool-season perennial that will bloom in the spring, stop blooming during the summer heat, and bloom again in the autumn. A delightful way to book-end the growing season.
- Violas can be good pollinator plants, they are also resistant to deer and the allelopathic biochemicals produced by black walnut trees.

#### **GARDEN ATTRIBUTES**

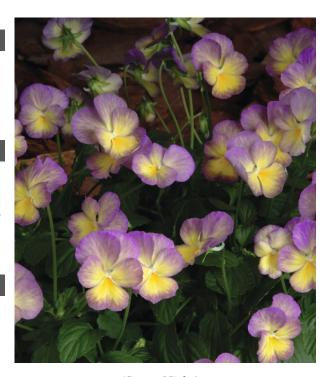
- Viola cornuta features cute single flowers that can be used as solo cut flowers. The flowers are also edible.
- A nice choice for perennial borders, containers, hanging baskets, window boxes, spring centerpiece displays, or sprinkled throughout the garden to declare "spring is here!".
- Prefers consistently moist soils that are relatively welldrained and rich in organic matter. Can be grown in clay soils if in full sun and not overwatered.

## **COMPANION PLANTS**

Alstroemeria, Monarda, Eupatorium (Ageratina), Polemonium, Phlox, Dianthus, Veronica

#### **COMMON NAMF(S)**

violet, horned violet, horned pansy



'Starry Night'

#### NATIVITY

Western Europe

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